Application No.: 10/755,390

Reply to Office Action of June 15, 2005

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ABSTRACT OF THE DISCLOSURE

A line start reluctance synchronous motor includes: a single phase stator arranged at an

inner circumferential surface of a motor body and on which a main coil and a sub coil are

wound; a magnet unit free-rotatably arranged along an inner circumferential surface of the stator

in order to maintain an air gap with the stator; and a cage rotor provided with a rotation shaft at a

center portion thereof to be rotatable along an inner circumferential surface of the magnet unit.